

Clinical Endocrinology

Editors

LESLEY H. REES

D. C. ANDERSON

Editorial Assistant

P. J. A. MOULT

Editorial Board

J. D. N. NABARRO *Chairman*

D. T. BAIRD

H. S. JACOBS

P. H. BAYLIS

D. R. LONDON

P. E. BELCHETZ

J. L. H. O'RIORDAN

C. G. D. BROOK

P. H. SÖNKSEN

R. V. BROOKS

T. E. T. WEST

C. R. W. EDWARDS

J. S. WOODHEAD

R. L. HIMSWORTH

VOLUME 16

Pages 1-635

BLACKWELL SCIENTIFIC PUBLICATIONS

OXFORD LONDON EDINBURGH BOSTON MELBOURNE

1982

Published by Blackwell Scientific Publications Ltd © 1982
Osney Mead, Oxford OX2 0EL

Printed in Great Britain at the Alden Press, Oxford

CONTENTS

VOLUME 16, NUMBER 1, JANUARY 1982

J. S. G. VAN DEN BOSCH, A. G. H. SMALS, I. M. VALK and P. W. C. KLOPPENBORG. Lack of difference in growth stimulating effect between weekly single and multiple human chorionic gonadotrophin administration in boys with delayed puberty	1
Y. KIY, M. T. REZKALLAH-IWASSO, M. T. S. PERAÇOLI and N. G. S. MOTA. Immunological disturbances in toxic multinodular goitre and active Graves' disease	11
LAURA GRUÑEIRO DE PAPENDIECK, SONIA IORCANSKY, M. A. RIVAROLA and C. BERGADÁ. Variations in clinical, hormonal and serological expressions of chronic lymphocytic thyroiditis (CLT) in children and adolescents	19
T. CUNDY, J. A. KANIS, G. HEYNEN, S. PATON, M. EARNSHAW and C. G. WOODS. Deterioration of renal bone disease in patients treated with salmon calcitonin	29
F. C. W. WU, I. A. SWANSTON and D. T. BAIRD. Raised plasma oestrogens in infertile men with elevated levels of FSH	39
H. A. DREXHAGE, LINDA J. HAMMOND, LUCILLE BITENSKY, J. CHAYEN, G. F. BOTTAZZO and DEBORAH DONIACH. The involvement of the pentose shunt in thyroid metabolism after stimulation with TSH or with immunoglobulins from patients with thyroid disease. I. The generation of NADPH in relation to stimulation of thyroid growth	49
H. A. DREXHAGE, LINDA J. HAMMOND, LUCILLE BITSENSKY, J. CHAYEN, G. F. BOTTAZZO and DEBORAH DONIACH. The involvement of the pentose shunt in thyroid metabolism after stimulation with TSH or with immunoglobulins from patients with thyroid disease. II. The reoxidation of NADPH and stimulation of hormone synthesis	57
J. AYRES, J. REES, T. J. H. CLARK and M. N. MAISEY. Thyrotoxicosis and dyspnoea	65
H. HASSELBALCH, J. SELMER, L. SESTOFT and H. KEHLET. Hypothalamic-pituitary adrenocortical function in chronic alcoholism	73
M. E. SAFAR, A. CH. SIMON, S. A. DARD, H. R. PARLIER, N. E. PAULEAU, M. L. VINCENT and J. E. SASSARD. Aldosterone in sustained essential hypertension	77
J. ARENDT, S. HAMPTON, J. ENGLISH, P. KWASOWSKI and V. MARKS. 24-hour profiles of melatonin, cortisol, insulin, C-peptide and GIP following a meal and subsequent fasting	89
S. MELMED, H. E. CARLSON and J. M. HERSHMAN. Histidyl-proline diketopiperazine suppresses prolactin secretion in human pituitary tumour cell cultures	97
Rapid communication	
A. F. GILES. An improved method for the radioimmunoassay of free-thyroxine in serum dialysates	101

VOLUME 16, NUMBER 2, FEBRUARY 1982

H-J. QUABBE. Treatment of acromegaly by trans-sphenoidal operation, 90-Yttrium implantation and bromocriptine: results in 230 patients	107
--	-----

REGINA H. E. KRUTER, MONIKA LIEDTKE, J. A. SISSON DE CASTRO and J. L. GROSS. T3 hyperthyroidism and thyroid cancer	121
E. O. REITER, R. C. STERN and A. W. ROOT. The reproductive endocrine system in cystic fibrosis: 2. Changes in gonadotrophins and sex steroids following LHRH	127
I. M. SPITZ, E. KEREM, E. ZYLBER-HARAN, S. SHILO, N. LAUFER, Y. LIVSHIN and J. G. SCHENKER. Clomiphene citrate does not modify the exaggerated thyrotrophin response to thyrotrophin-releasing hormone occurring in primary testicular failure	139
C. BERGQUIST, S. J. NILLIUS and L. WIDE. Failure of positive feedback of oestradiol during chronic intranasal luteinizing hormone-releasing hormone agonist treatment	147
P. J. A. MOULT, LESLEY H. REES and G. M. BESSER. Pulsatile gonadotrophin secretion in hyperprolactinaemic amenorrhoea and the response to bromocriptine therapy	153
M. S. STIVEL, R. KAULI, H. KAUFMAN and Z. LARON. Adrenocortical function in children with precocious sexual development during treatment with cyproterone acetate	163
R. FLEMING and J. R. T. COUTTS. Prediction of ovulation in women using a rapid progesterone radioimmunoassay	171
G. M. BELL, J. S. A. SAWERS, A. D. TOFT and A. DOIG. Nocturnal natriuresis in hyperthyroidism	177
T. F. DAVIES, M. PLATZER and N. R. FARID. Prediction of therapeutic response to radioactive iodine in Graves' disease using TSH-receptor antibodies and HLA-status	183
I. E. MESSINIS, D. E. LOLIS, N. KANELLOPOULOS, N. DALKALITSIS and C. KANARIS. TRH injection during labour: effect on maternal and fetal prolactin secretion	193
J. FABER, I. B. LUMHOLTZ, C. KIRKEGAARD, K. SIERSBAEK-NIELSEN and T. FRIIS. Metabolic clearance and production rates of 3,3'-diiodothyronine, 3',5'-diiodothyronine and 3'-monoiodothyronine in hyper- and hypothyroidism	199
H.-H. PARVING, G. HELIN, C. GARBARSCHE, A. A. JOHANSEN, B. A. JENSEN, P. HELIN, P. LUND and J. LYNGSØE. Acid glycosaminoglycans in myxoedema	207
Letters to the Editors	211
Announcements	213

VOLUME 16, NUMBER 3, MARCH 1982

D. I. CONWAY, D. C. ANDERSON and D. E. BU'LOCK. The steroid response to controlled adrenal stimulation in congenital adrenal hyperplasia	215
H. MARTIKAINEN and R. VIHKO. hCG-stimulation of testicular steroidogenesis during induced hyper- and hypoprolactinaemia in man	227
K. BECH, U. FELDT-RASMUSSEN, H. BLIDDAL, J. DATE and M. Blichert-Toft. The acute changes in thyroid stimulating immunoglobulins, thyroglobulin and thyroglobulin antibodies following subtotal thyroidectomy	235
V. OD Lind, K. CARLSTRÖM, G. MICHAELSSON, A. VAHLQVIST, A. VICTOR and T. MELLBIN. Plasma androgenic activity in women with acne vulgaris and in healthy girls before, during and after puberty	243

H. M. VEMER and R. ROLLAND. The influence of exogenous oestradiol benzoate on the pituitary responsiveness to LHRH during the puerperium in women	251
Y. K. SOONG, K. M. FERGUSON, G. MCGARRICK and S. L. JEFFCOATE. Size heterogeneity of immunoreactive prolactin in hyperprolactinaemic serum	259
E. G. BLACK, S. J. BODDEN, J. A. HULSE and R. HOFFENBERG. Serum thyroglobulin in normal and hypothyroid neonates	267
I. M. SPITZ, H. LANDAU, V. GROSS, S. TRESTIAN, Z. PALTÍ and E. RACHMILEWITZ. Prolactin responsiveness to TRH and metoclopramide in thalassaemia	275
M. J. J. GORMLEY, D. R. HADDEN, T. L. KENNEDY, D. A. D. MONTGOMERY, G. A. MURNAGHAN and B. SHERIDAN. Cushing's syndrome in pregnancy—treatment with metyrapone	283
R. BOSCH, J. H. H. THIJSEN and S. A. DUURSMÁ. Serum concentrations of dihydrotachysterol-2 in the treatment of osteoporosis and hypoparathyroidism	295
P. H. B. WILLEMSE, D. TH. SLEIJFER, W. J. SLUITER, H. SCHRAFFORDT KOOPS and H. DOORENBOS. Alterations in thyroid hormone metabolism during chemotherapy in patients with testicular carcinoma	303

Announcements	315
----------------------	-----

Rapid Communication

A. GROSSMAN, S. WEST, J. WILLIAMS, J. EVANS, L. H. REES and G. M. BESSER. The role of opiate peptides in the control of prolactin in the puerperium, and TSH in primary hypothyroidism	317
--	-----

VOLUME 16, NUMBER 4, APRIL 1982

S. J. WINTERS, R. E. JOHNSONBAUGH and R. J. SHERINS. The response of prolactin to chlorpromazine stimulation in men with hypogonadotrophic hypogonadism and early pubertal boys: relationship to sex steroid exposure	321
V. LO CASCIO, W. PIUBELLO, L. COMINACINI, I. VANTINI, G. GALVANINI, A. EDERLE, G. CAVALLINI and L. A. SCURO. Calcium and parathyroid hormone behaviour after exogenous secretin infusion in man	331
T. L. CLEMENS, L. J. FRAHER, L. M. SANDLER and J. L. H. O'RIORDAN. Demonstration of circulating 1,24,25-trihydroxyvitamin D ₃ in man by radio-immunoassay	337
W. A. SCHERBAUM and P. A. BERG. Development of adrenocortical failure in non-addisonian patients with antibodies to adrenal cortex. A clinical follow-up study	345
S. LIGHTMAN, N. LANGDON, K. TODD and M. FORSLING. Naloxone increases the nicotine-stimulated rise of vasopressin secretion in man	353
A. PERTZELAN, L. YALON, R. KAULI and Z. LARON. A comparative study of the effect of oestrogen substitution therapy on breast development in girls with hypogonadotrophic hypogonadism	359
D. W. M. PEARSON, W. A. RATCLIFFE, J. A. THOMSON and J. G. RATCLIFFE. Biochemical and clinical effects of fenclofenac in thyrotoxicosis	369
S. L. S. DROP, L. SABBE-CLAUS and H. K. A. VISSER. The effect of puberty and short-term oral administration of testosterone undecanoate on GH tests and sex-steroid related plasma compounds in GH deficient patients	375
R. PELKONEN, E. A. NIKKILÄ and B. GRAHNE. Serum lipids, postheparin plasma lipase activities and glucose tolerance in patients with prolactinoma	383

T. MORI, Y. FUJITA, K. NIHNOBU, Y. EZAKI, K. KUBO and T. NISHIMURA. Steroidogenesis <i>in vitro</i> by human ovarian follicles during the process of atresia	391
A. W. MEIKLE. Dexamethasone suppression tests: usefulness of simultaneous measurement of plasma cortisol and dexamethasone	401
H. RICKERS, A. DEDING, C. CHRISTIANSEN, P. RØDBRO and J. NAESTOFT. Corticosteroid-induced osteopenia and vitamin D metabolism. Effect of vitamin D ₂ , calcium phosphate and sodium fluoride administration	409
Book reviews	417

VOLUME 16, NUMBER 5, MAY 1982

I. M. SPITZ, E. A. ZYLBER-HARAN, S. TRESTIAN, Y. DICKSTEIN, Z. PALT and J. G. SCHENKER. The decreased basal and stimulated prolactin levels in isolated gonadotrophin deficiency: a consequence of the low oestrogen state	423
GEORGE PHILLIPOU. Investigation of urinary steroid profiles as a diagnostic method in Cushing's syndrome	433
J. COLIN FORFAR, J. STEWART, A. SAWERS and ANTHONY D. TOFT. Cardiovascular responses in hyperthyroidism before and during β -adrenoceptor blockade: evidence against adrenergic hypersensitivity	441
P. L. DRURY, H. J. BODANSKY, C. J. ODDIE, A. G. CUDWORTH and C. R. W. EDWARDS. Increased plasma renin activity in Type 1 diabetes with microvascular disease	453
S. ADAMI, N. MUIRHEAD, R. M. MANNING, J. H. GLEED, S. E. PAPAPOULOS, L. M. SANDLER, G. R. D. CATTO and J. L. H. O'RIORDAN. Control of secretion of parathyroid hormone in secondary hyperparathyroidism	463
T. C. GNIADK, R. J. GREKIN, M. D. GROSS and J. Z. VILLAREAL. Hyperresponsiveness of aldosterone to metoclopramide in aldosteronism	475
E. NIESCHLAG, S. BERNITZ and M. TÖPERT. Antigenicity of human chorionic gonadotrophin preparations in men	483
F. C. W. WU, J. BANCROFT, D. W. DAVIDSON and K. NICOL. The behavioural effects of testosterone undecanoate in adult men with Klinefelter's syndrome: a controlled study	489
Letters to the Editors	499
International Society of Endocrinology	501
Book reviews	503

VOLUME 16, NUMBER 6, JUNE 1982

M. J. G. FARTHING, LESLEY H. REES, C. R. W. EDWARDS, P. G. H. BYFIELD, R. L. HIMSWORTH and A. M. DAWSON. Thyroid hormones and the regulation of thyroid function in men with coeliac disease	525
S. ATKINSON, A. M. MCGREGOR, PAT KENDALL-TAYLOR, M. M. PETERSON and B. R. SMITH. Effect of radioiodine on stimulatory activity of Graves' immunoglobulins	537

B. P. O'MALLEY, R. J. ABBOTT, D. B. BARNETT, B. J. NORTHOVER and F. D. ROSENTHAL. Propranolol versus carbimazole as the sole treatment for thyrotoxicosis. A consideration of circulating thyroid hormone levels and tissue thyroid function	545
J. W. F. ELTE, A. HAAK, K. S. WIARDA, M. FRÖLICH, E. A. VAN DER VELDE, D. VAN DER HEIDE and A. QUERIDO. Propranolol improves the impaired TSH response to TRH in patients with autonomously functioning euthyroid multinodular goitre	553
ELAINE M. KAPTEIN, JOHN M. WEINER, WILLIAM J. ROBINSON, WILLIAM S. WHEELER and JOHN T. NICOLOFF. Relationship of altered thyroid hormone indices to survival in nonthyroidal illnesses	565
H. R. A. FISCHER, W. H. L. HACKENG, W. SCHOPMAN and J. SILBERBUSCH. Analysis of factors in hyperthyroidism, which determine the duration of <i>suppressive</i> treatment before recovery of thyroid stimulating hormone secretion.	575
TORBJÖRN BERGH, SVEN JOHAN NILLIUS and LEIF WIDE. Menstrual function and serum prolactin levels after long-term bromocriptine treatment of hyperprolactinaemic amenorrhoea	587
P. M. BAXENDALE, H. S. JACOBS and V. H. T. JAMES. Salivary testosterone: relationship to unbound plasma testosterone in normal and hyperandrogenic women	595
S. MADSBAD, O. K. FABER, A. KURTZ, T. KRARUP, L. REGEUR, B. TRONIER, H. ØRSKOV, C. BINDER and K. G. M. M. ALBERTI. The significance of the portal insulin secretion in insulin dependent patients with residual β -cell function: a safeguard against hormonal and metabolic derangement	605
CRISTIANO BARBIERI, MARIA TERESA LAROVERE, GIANCARLO MARIOTTI, CARLO FERRARI and ROBERTO CALDARA. Prolactin stimulation by intravenous labetalol is mediated inside the central nervous system	615
Rapid Communication	
E. J. FOLKERD, H. S. JACOBS, Z. VAN DER SPUY and V. H. T. JAMES. Failure of FSH to influence aromatization in human adipose tissue	621
Author index to Volume 16	627
Subject index to Volume 16	633